

Immediate Release

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BORGWARNER SUPPLIES R2S[®] TURBOCHARGING TECHNOLOGY
FOR VOLVO CARS NEW ENGINE PLATFORM

BorgWarner's Regulated Two-Stage (R2S[®]) Turbocharging Technology Improves Performance and Fuel Economy for Powerful Downsized Diesel Engine

Auburn Hills, Michigan, October 23, 2014 – BorgWarner's award-winning regulated two-stage turbocharging (R2S[®]) technology boosts the 2.0-liter diesel engine for Volvo's new Drive-E powertrain family. Available for nearly all Volvo models, the fuel-efficient four-cylinder engine achieves an output of 190 HP (140 kW) and a maximum torque of 400 Nm. BorgWarner's R2S turbocharging technology helps the engine set new standards of efficiency and performance. In the Volvo V40 D4, the BorgWarner-boosted engine helps improve fuel economy and reduce emissions, achieving an average fuel consumption of 71 mpg (3.3 liters/100 km) and reducing carbon dioxide (CO₂) emissions to only 85 g/km.

"BorgWarner's R2S technology is a key enabler for downsizing diesel engines, helping automakers comply with upcoming emissions regulations while maintaining high engine output," said Frédéric Lissalde, President and General Manager, BorgWarner Turbo Systems. "We appreciate our long-term partnership with Volvo Cars and are very proud that Volvo chose BorgWarner's advanced turbocharging technology for its new high-volume, clean diesel engine. Our many years of turbocharger development and production experience help automakers around the world offer fuel-efficient engines that deliver an outstanding fun-to-drive experience."

BorgWarner's R2S turbocharging technology combines two turbochargers of different sizes to allow the turbine and compressor sides of the system to continuously adapt and deliver high boost pressures over the entire engine speed range. At low engine speeds, the entire exhaust gas flow is directed to the smaller, high-pressure turbocharger, resulting in a quick rise in boost pressure. At higher engine speeds, the wastegate valve opens, and the exhaust gas is redirected to the larger, low-pressure turbocharger. By

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optimizing the full engine speed range, the R2S turbocharging system helps improve fuel economy and reduce emissions while enhancing performance.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a product leader in highly engineered components and systems for powertrains around the world. Operating manufacturing and technical facilities in 60 locations in 19 countries, the company delivers innovative powertrain solutions to improve fuel economy, reduce emissions and enhance performance. For more information, please visit borgwarner.com.



BorgWarner's R2S[®] turbocharging technology improves fuel economy and reduces emissions for Volvo's new 2.0-liter diesel engine.

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